

PTO/SB/08a (08-03)

Approved for use through 07/31/2008. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

**SUPPLEMENTAL
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

Sheet 1 of 3

Complete if Known

Application Number	10/803,867
Filing Date	March 18, 2004
First Named Inventor	Brooks, et al.
Art Unit	1756
Examiner Name	Unknown Young
Attorney Docket Number	AMAT/7681/MASK/MASK-TECH/ARNOLD S

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)			
Cuy	A1	US-6,709,901	03/23/2004	Yamazaki et al.	
Cuy	A2	US-6,635,185	10/21/2003	Demmin et al.	
Cuy	A3	US-6,391,791	05/21/2002	Sasaki et al.	
Cuy	A4	US-6,307,265	03/14/2000	Mui et al.	
Cuy	A5	US-6,251,217	06/26/2001	Ye et al.	
Cuy	A6	US-6,214,637	04/10/2001	Kim et al.	
Cuy	A7	US-6,114,250	09/05/2000	Ellingboe et al.	
Cuy	A8	US-6,080,529	06/27/2000	Ye et al.	
Cuy	A9	US-6,033,979	03/07/2000	Endo	
Cuy	A10	US-6,007,732	12/28/1999	Hashimoto et al.	
Cuy	A11	US-5,994,235	11/30/1999	O'Donnell	
Cuy	A12	US-5,948,570	09/07/1999	Kornblit et al.	
Cuy	A13	US-5,861,233	01/19/1999	Sekine et al.	
Cuy	A14	US-5,773,199	06/30/1998	Linliu et al.	
Cuy	A15	US-5,750,290	05/12/1998	Yasuzato et al.	
Cuy	A16	US-5,538,816	07/23/1996	Hashimoto et al.	
Cuy	A17	US-4,600,686	07/15/1986	Meyer et al.	
Cuy	A18	US-4,504,574	03/12/1985	Meyer et al.	
Cuy	A19	US-4,406,733	09/27/1983	Tachi et al.	
Cuy	A20	US-4,350,563	09/21/1982	Takada et al.	

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
Cuy	B1	DE 27 01 458	01/14/1977	Sato et al.		
Cuy	B2	EP 0 978 870	02/09/2000	Sasaki et al.		
Cuy	B3	EP 0 999 472	05/10/2000	Sasaki et al.		
Cuy	B4	JP 11-131263 (English abstract)	05/18/1999	Shusaku		X
Cuy	B5	JP 2001-33940 (English abstract)	06/10/2003	Yong-Hoon		X
Cuy	B6	JP 60 016422 (English abstract)	01/28/1985	Hidefumi et al.		X
Cuy	B7	JP 60 219748 (English abstract)	11/02/1985	Kazuhiro et al.		X
Cuy	B8	JP 62 181433 (English abstract)	08/08/1987	Kazuhiro et al.		X
Cuy	B9	WO 00/67281	11/09/2000	Pong		

Examiner Signature		Date Considered	2/2005
-----------------------	--	--------------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet	2	of	3
-------	---	----	---

Complete if Known

Application Number	10/803,867
Filing Date	March 18, 2004
First Named Inventor	Brooks, et al.
Art Unit	1756
Examiner Name	Unknown Young
Attorney Docket Number	AMAT7681/MASK/MASK-TECH/ARNOLD S

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

**Examiner
Signature**

Date Considered

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 801.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449B/PTO SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete If Known	
		Application Number	10/803,867
		Filing Date	March 18, 2004
		First Named Inventor	Brooks, et al.
		Art Unit	1756
		Examiner Name	Unknown Young
Sheet 3 of 3	Attorney Docket Number	AMAT/7681/MASK/MASK-TECH/ARNOLD S	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
Cuy	C1	PCT International Search Report from International Application No. PCT/US02/27869, Dated 23 December 2002. (AMAT/6399PCT).	
Cuy	C2	PCT Search Report for PCT/US03/11549, dated February 19, 2004 (AMAT/6991.PCT).	
Cuy	C3	KWON, ET AL., "Loading Effect Parameters at Dry Etcher System and Their Analysis at Mask-to-Mask Loading and Within-Mask Loading" Proceedings of SPIE, Vol. 4562 (2002) pp. 79-87.	
Cuy	C4	FUJISAWA, ET AL. "Evaluation of NLD Mask Dry Etching System" SPIE Symposium on Photomask and X-Ray Technology VI, Yokohama, JAPAN, September (1999) Vol. 3748 pp. 147-152.	
Cuy	C5	RUHL, ET AL. "Chrome Dry Etch Process Characterization Using Surface Nano Profiling" Proceedings of SPIE, Vol. 4186 (2001) pp. 97-107.	
Cuy	C6	AOYAMA, ET AL. "Advanced Cr Dry Etching Process" SPIE Symposium on Photomask and X-Ray Technology VI, Yokohama, JAPAN, September (1999) SPIE, Vol. 3748 pp. 137-146.	

Examiner Signature		Date Considered	2/2005
--------------------	--	-----------------	--------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

Substitute for form 1449A/PTO

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet

1

of

1

Application Number

10/803,867

Filing Date

MARCH 18, 2004

First Named Inventor

BROOKS, ET AL.

Group Art Unit

UNKNOWN 1756

Examiner Name

UNKNOWN Young

Attorney Docket Number

AMAT/7681/MASK/MASK-ETCH/ARNOLD S

Submission Date

06/17, 2004

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	A1	US-6,251,217	06/20/2001	Ye, et al.	
	A2	US-6,214,037	04/10/2001	Kim, et al.	
	A3	US-6,114,250	09/05/2000	Ellingbee, et al.	
	A4	US-6,080,529	06/27/2000	Ye, et al.	
	A5	US-6,037,265	08/14/2000	Mul, et al.	
	A6	US-6,033,979	03/07/2000	Endo	
	A7	US-6,007,732	12/20/1999	Hashimoto, et al.	
	A8	US-5,948,570	09/07/1999	Kornblit, et al.	
	A9	US-5,861,230	01/19/1999	Gekins, et al.	
	A10	US-5,773,199	08/30/1998	Linalu, et al.	
	A11	US-5,750,290	05/12/1998	Yasuzato, et al.	
	A12	US-5,338,815	7/23/1990	Hashimoto, et al.	
	A13	US-4,600,686	07/15/1986	Meyer, et al.	
	A14	US-4,504,574	03/12/1985	Mayer, et al.	
	A15	US-			
	A16	US-			
	A17	US-			
	A18	US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ³
		Country Code ⁴ -Number ⁴ -Kind Code ⁵ (if known)				
	B1	JP 60-016422 (Eng. Abstract)	01/28/1985	Nakada Hidefumi, et al.		X
	B2					
	B3					
	B4					
	B5					

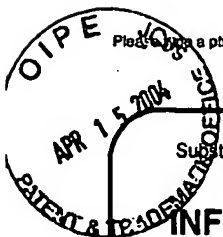
Examiner

Date Considered

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. ¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL DOCUMENTS CITED
ON DIFFERENT PTO-1449.



Please enter a plus sign (+) inside this box



PTO/SB/08b (08-03)

Approved for use through 08/30/2008. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Application Number	10/803,867
Filing Date	MARCH 18, 2004
First Named Inventor	BROOKS, ET AL
Group Art Unit	UNKNOWN 1756
Examiner Name	UNKNOWN Young
Attorney Docket Number	AMAT/7681/MASK/MASK-ETCH/ARNOLD S
Submission Date	April 12, 2004

Sheet 1 of 1

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	A1	PCT Search Report for PCT/US03/11549, dated February 19, 2004 (AMAT/6991.PG)	
	A2	KWON, ET AL., "Loading Effect Parameters at Dry Etcher System and Their Analysis at Mask-to-Mask Loading and Within-Mask Loading" Proceedings of SPIE, Vol. 4562 (2002) pp. 79-87.	
	A3	FUJISAWA, ET AL. "Evaluation of NLD Mask Dry Etching System" SPIE-Symposium on Photomask and X-Ray Technology VI, Yokohama, JAPAN, September (1999) Vol. 3748 pp. 147-152.	
	A4	BUHL, ET AL. "Chrome Dry Etch Process Characterization Using Surface Nano Profiling" Proceedings of SPIE, Vol. 4186 (2001) pp. 97-107.	
	A5	AOYAMA, ET AL. "Advanced Cr Dry Etching Process" SPIE Symposium on Photomask and X-Ray Technology VI, Yokohama, JAPAN, September (1999) SPIE, Vol. 3748 pp. 137-146.	

Examiner

Date Considered

2/2005

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.

ALL DOCUMENTS CITED
ON DIFFERENT
PTO-1449.